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EIA SPECIFICATION

Detail Specification on 2 Pole Toggle Switches

EIA-520DAAB

JUNE 1990

ELECTRONIC INDUSTRIES ASSOCIATION
ENGINEERING DEPARTMENT



Approved For Use In
The NECQ System



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(From EIA Standards Proposal No. 2194 formulated under the cognizance of the EIA P-13.2 Subcommittee on Toggle, Rocker, Paddle & Slide Switches.)

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Information on the availability of components qualified to this specification is given in the Qualified Products List

INTRODUCTION

The complete requirements for the switches described herein shall consist of this detail specification and the current issues of EIA-5200000 and EIA-520D000.

SECTION ONE - GENERAL DATA

1.0 General Data1.1 Scope

The standard size, two pole watertight toggle switches of certified quality covered by this detail specification

- a) mount in a 12.4 mm (.49 inch) diameter mounting hole.
- b) have a maximum rated voltage of 277 volts.
- c) have a maximum rated current of 20 amperes.

1.2 Type Designation

Switches covered by this detail specification shall be described by the following in the order shown:

- a) The number for this detail specification.
- b) The switching circuit per Table 1.
- c) The toggle lever locking combination, if any, per Table 1. Insert "X" if no locking combination is desired.
- d) The terminal style per Figure 3.

Example of Type Designation: EIA520DAAB01X1

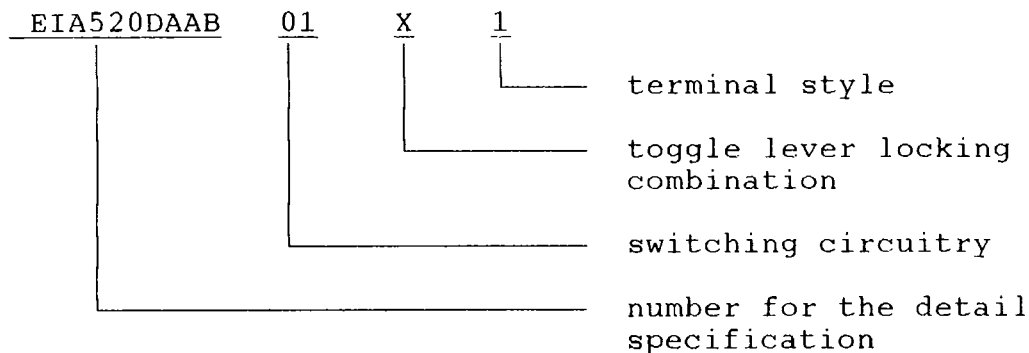


TABLE 1 - SWITCHING CIRCUIT

switching circuit number	available locking combination (see fig.2)	circuit made with toggle lever in			electrical rating code (table II)
		keyway side	center	opposite keyway side	
01	(all)	1-2, 4-5	OFF	2-3, 5-6	1
02	D,F,G	OFF	(none)	2-3, 5-6	1
03	D,F,G	1-2, 4-5	(none)	2-3, 5-6	1
04	F	mom. OFF	(none)	2-3, 5-6	2
05	E,F,K,L,M,N	mom.1-2,4-5	OFF	2-3, 5-6	2
06	F	mom.1-2,4-5	(none)	OFF	2
07	E,L,N	mom.1-2,4-5	OFF	mom. 2-3, 5-6	2
08	F	mom.1-2,4-5	(none)	2-3, 5-6	2
10	(all)	1-2, 4-5	1-2,5-6	2-3, 5-6	1
21	E,F,K,M	[1]	OFF	2-3, 5-6	1
31	E,F,K,M	[1]	1-2,4-5	2-3, 5-6	1
50	E,F,K,L,M,N	mom.1-2,4-5	1-2,5-6	2-3, 5-6	2
51	E	[1]	1-2,4-5	mom. 2-3, 5-6	2
61	E	mon.1-2,4-5	OFF	[1]	2
70	E,L,N	mom.1-2,4-5	1-2,5-6	mom. 2-3, 5-6	2

NOTE: [1] No toggle lever position. This switching circuitry has two toggle lever positions with one position being the normal center position.

1.3 Marking

The marking of the switch and package shall be in accordance with the requirements of subclause 2.5 of the Generic Specification. The switches shall be marked with the following information:

- terminal identification per Figure 1.
- type designation per 1.2
- manufacturer's name
- date code per RS-476

1.4 Ordering Information

Orders for switches covered by this Specification shall contain the following information as a minimum:

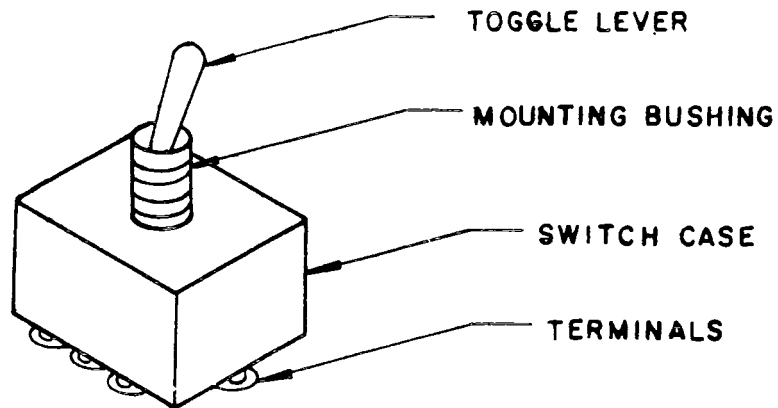
- the applicable part number per subclause 1.2.
- "per EIA520DAAB dated (insert issue date)"

1.5 Certified Records of Released Lot - not required.

1.6 Safety Considerations

The user shall consider the suitability of the switch with regard to any safety requirements applicable to the equipment.

1.7 Common Features



1.8 Dimensional Parameter

1.8.1 Mounting Dimensions

The mounting dimensions shall be in accordance with Figure 1 and are common to all switches covered by this detail specification. The configuration is optional within the specified dimensions. The original dimensions are in inches.

1.8.2 Toggle lever Dimensions

The toggle lever dimensions shall be in accordance with Figure 2.

1.8.3 Terminal Dimensions

The terminal dimensions shall be in accordance with Figure 3. Terminals which are not functionally required shall be omitted.

1.8.4 Mounting Hardware

The dimensions of the mounting hardware shall be in accordance with Figure 4 for the hex nut, Figure 5 for the internal tooth lockwasher, and Figure 6 for the keying washer.

1.8.5 Terminal Hardware

The dimensions of the terminal hardware shall be in accordance with Figure 7 for the screw with the captive internal tooth lockwasher or, at the option of the manufacturer, with Figure 8 for the pan head screw and with Figure 9 for the split ring lockwasher.